

Australian Ship Powered by Hydrogen Fuel Cell System

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NedStack, a Dutch company focused on commercializing and producing PEM fuel cell stacks, delivered a hydrogen fuel cell system for an Australian prawn trawler. A contract has been



signed on May 11th. In addition to delivering the materials, NedStack has also committed to a knowledge transfer whereby engineers from the Australian system integrator, ElectryGen PTY, will follow a fuel cell systems training at NedStack's facilities in September 2009. The boat will be operational in 2010. The propulsion of the prawn trawler will consist of a hybrid drive, consisting of a (30kW) hydrogen fuel cell system combined with batteries. These types of fuel cell-electric drive lines are the most efficient that exist and produce zero emissions such as greenhouse and other harmful gasses. Only water is generated as waste product.

This vessel is NedStack's second maritime application: earlier this year, the company delivered two fuel cell systems for the first commercial hydrogen-operated canal boat in Amsterdam. The company NedStack was founded in 1998. It produces hydrogen fuel cells for automotive purposes, and stationary power units including telecom back-up applications. It is the largest fuel cell manufacturer in Europe. The market for fuel cell based hydrogen engines is expanding rapidly. Over the past two years, the power delivered by NedStack's fuel cells has increased by 500%. In 2012 this will have grown by a factor of twenty.



Sources:

“NedStack signs contract for hydrogen fuel cell system for Australian trawler”. Fuel Cell Today. 12 May 2009. <http://www.fuelcelltoday.com/online/news/articles/2009-05/NedStack-signs-contract-for-hydr>

“Australian order for Dutch hydrogen fuel cell manufacturer”. Fuel Cell Markets. http://www.fuelcellmarkets.com/nedstack/news_and_information/3,1,1710,1,28068.html